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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/578,215	05/23/2000	Edward B. Boden	END9 1999 0129 US1	4856

7590 01/13/2005

IBM Corporation  
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EXAMINER

SON, LINH L D

ART UNIT	PAPER NUMBER
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2135

DATE MAILED: 01/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/578,215

Applicant(s)

BODEN ET AL.

Examiner

Linh Son

Art Unit

2135

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 23 May 2000.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-22 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

**DETAILED ACTION**

1. The written action is a Final-Action responding to the Amendment received on July 2nd, 2004.
2. Claims 1-22 are pending.

***Claim Rejections - 35 USC § 101***

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

4. Claims 8, 9, 10, 11, 12, 16, 17, and 21 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. The language still recites the program steps without being implemented by a program or software instruction in a computer medium hardware. Therefore, the 35 U.S.C.101 traversal is not persuasive and the rejection is maintained.

***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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6. Claims 1, 12, 13, 16, 18, 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Borella et al (US-6353614), hereinafter "Borella", in view of Jain et al (US-6047325), hereinafter "Jain"
7. As per claims 1, 12, 13-16, 18, 19, 20 and 22, the previous office action rejection basis is maintained. Further, the implementation of NAT with VPN connection has also been considered in Borella invention (Col 16 lines 20-23). For more, Jain teaches the VPN connection setup utilizing the DHCP servers to assign IP address (Col 5 lines 13-39). Therefore, it would be obvious at the time of the invention was made for one having ordinary skill in the art to incorporate Borella's Network Address Translation method with Jain's VPN connection method to provide a secure connection over the Internet or Intranet. Since, Borella anticipated the implementation of NAT with VPN, the incorporating NAT with VPN would provide a double layers of security to the user. Further, Jain's invention utilizes DHCP servers. The incorporation of NAT in Jain's DHCP server would allow the VPN connection to be executed on one end of the connection (Borella, Col 16 lines 20-23, and Jain (Col 5 lines 13-40).
8. As per claims 14 and 15, Claim 1 rejection basis is incorporated. Further, Borella does teach the implementation of NAT with VPN in (Col 16 lines 20-23). Therefore, the ICMP layer (Col 5 lines 5-14 and FTP (Col 2 lines 22-28)

implementation in NAT can also be implemented in the VPN NAT environment.

9. Claims 2-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Borella et al (US-6353614) in view of Jain et al (US-6047325), and further in view of Arrow (US-6226751).
10. As per claims 2-7, the previous written action rejection basis is maintained and further is incorporated the obviousness rejection of claim 1. Claims 2-7 are rejected.
11. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Arrow (US-6226751).
12. As per claim 11, the previous written action rejection basis is maintained.

### ***Conclusion***

13. Applicant has amended claims 1-22, which necessitated new grounds of rejection. See Rejections above.

14. Borrella does utilize PNAT and DNAT in the invention (Col 5 line 60), which supports both UDP and TCP in (Col 4 line 50 to Col 5 line 60). Further, Borrella does anticipate the implementation of DNAT in the VPN environment, which is known to utilize the IPSec (Col 16 lines 10-24).
15. As regarding to Jain, Applicant argues that Jain teaches port translation, utilizes ports and MAC address, and the claimed invention does not. However, the nowhere in claim language recites the limitations and clearly explains otherwise. Therefore, Jain's invention reads directly in the claim with the incorporation of Borrella invention.
16. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).
17. A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action.

In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

**Conclusion**

1. Any inquiry concerning this communication from the examiner should be directed to Linh Son whose telephone number is (571)-271-3856.
2. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor Kim Y. Vu can be reached at (571)-272-3859. The fax numbers for this group are (703)-872-9306 (official fax). Any inquiry of general nature or relating to the status of this application or proceeding should be directed to the group receptionist whose telephone number is (571)-272-2100.
3. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval IPAIR.I system. Status information for published applications may be obtained from either Private PMR or Public PMR. Status information for unpublished applications is available through Private PMR only. For more information about the PAIR system, see <http://pzr-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
KIM VU  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2135